

Result No.	Score	Query Match	Length DB	ID	Description	SUMMARIES
1	2083	100.0	392	15	US-10-424-599-220046	Sequence 220046;
2	2083	100.0	392	16	US-10-734-698A-39	Sequence 39 , App1
3	2083	100.0	392	17	US-10-917-602A-39	Sequence 39 ; App1
4	2083	100.0	395	15	US-10-425-114-44212	Sequence 44212 , A
5	2083	100.0	395	15	US-10-425-114-44833	Sequence 44833 , A
6	2074	99.6	421	15	US-10-425-114-55057	Sequence 55057 , A
7	2073	99.5	413	15	US-10-425-114-43817	Sequence 43817 , A
8	2073	99.5	414	15	US-10-425-114-45713	Sequence 45713 , A
9	2073	99.5	416	15	US-10-422-114-45878	Sequence 45878 , A
10	2073	99.5	420	15	US-10-425-114-55959	Sequence 55959 , A
11	2073	99.5	420	15	US-10-425-114-45723	Sequence 45723 , A
12	2073	99.5	421	15	US-10-425-114-45874	Sequence 45874 , A
13	2073	99.5	421	15	US-10-425-114-46284	Sequence 46284 , A
14	2073	99.5	421	15	US-10-425-114-51724	Sequence 51724 , A
15	2073	99.5	421	15	US-10-425-114-71917	Sequence 71917 , A
16	2073	99.5	422	15	US-10-425-114-51415	Sequence 51415 , A
17	2073	99.5	423	15	US-10-425-114-43754	Sequence 43754 , A
18	2073	99.5	423	15	US-10-425-114-44216	Sequence 44216 , A
19	2073	99.5	423	15	US-10-425-114-45712	Sequence 45712 , A
20	2073	99.5	423	15	US-10-425-114-45723	Sequence 45723 , A
21	2073	99.5	423	15	US-10-425-114-51430	Sequence 51430 , A
22	2073	99.5	423	15	US-10-425-114-53367	Sequence 53367 , A
23	2073	99.5	423	15	US-10-425-114-68219	Sequence 68219 , A
24	2073	99.5	423	15	US-10-425-114-71903	Sequence 71903 , A
25	2073	99.5	423	15	US-10-425-114-71916	Sequence 71916 , A
26	2073	99.5	423	15	US-10-425-114-71922	Sequence 71922 , A
27	2073	99.5	423	15	US-10-425-114-71923	Sequence 71923 , A
28	2073	99.5	423	15	US-10-425-114-71924	Sequence 71924 , A
29	2073	99.5	423	15	US-10-425-114-71954	Sequence 71954 , A
30	2073	99.5	423	15	US-10-425-114-71966	Sequence 71966 , A
31	2073	99.5	423	15	US-10-425-114-71968	Sequence 71968 , A
32	2073	99.5	423	15	US-10-425-114-72190	Sequence 72190 , A
33	2073	99.5	423	15	US-10-425-114-71975	Sequence 71975 , A
34	2073	99.5	423	15	US-10-425-114-71992	Sequence 71992 , A
35	2073	99.5	423	15	US-10-425-114-71993	Sequence 71993 , A
36	2073	99.5	423	15	US-10-425-114-71994	Sequence 71994 , A
37	2073	99.5	423	15	US-10-425-114-72190	Sequence 72190 , A
38	2073	99.5	425	15	US-10-425-114-45846	Sequence 45846 , A
39	2062.5	99.0	393	15	US-10-424-599-220047	Sequence 220047 ,
40	2056.5	98.7	393	15	US-10-424-599-258237	Sequence 258237 ,
41	2048.5	98.3	393	15	US-10-424-599-220043	Sequence 220043 ,
42	1999	96.0	395	15	US-10-424-599-260160	Sequence 260160 ,
43	1999	96.0	395	15	US-10-424-599-26162	Sequence 26162 ,
44	1999	96.0	402	15	US-10-425-114-4433	Sequence 4433 , A
45	1999	96.0	420	15	US-10-425-114-44746	Sequence 44746 , A
ALIGNMENTS						
RESULT 1						
US-10-424-599-220046						
; Sequence 220046 , Application US/10424599						
; Publication No. : US2004031072A1						
; GENERAL INFORMATION:						
; APPLICANT: Kovacic David K						
; INVENTION: Cao Yongwei						
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof for Plant Improvement						
; FILE REFERENCE: 38-21(53223)B						
; CURRENT APPLICATION NUMBER: US/10/424,599						
; NUMBER OF SEQ ID NOS: 285684						
; SEQ ID NO: 220046						
; LENGTH: 392						
; TYPE: PRT						
; ORGANISM: Glycine max						
; OTHER INFORMATION: Clone ID: PAT_MRT3847_407303.C.1.pep						
US-10-424-599-220046						
Query Match 100.0%; Score 2083; DB 15; Length 392;						
Best Local Similarity 100.0%; Pred. No. 9 1e-191;						
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy 1 MAETPLETSSESYNEGHDPDKLCDOISDAVLDACLEODPSDKYACETCTPKTNLVMFGELTT 60						
Db 1 MAETPLETSSESYNEGHDPDKLCQISDAVLDACLEODPSDKYACETCTPKTNLVMFGELTT 60						
; Query Match 100.0%; Score 2083; DB 15; Length 392;						
Best Local Similarity 100.0%; Pred. No. 9 1e-191;						
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy 1 MAETPLETSSESYNEGHDPDKLCQISDAVLDACLEODPSDKYACETCTPKTNLVMFGELTT 60						
Db 1 MAETPLETSSESYNEGHDPDKLCQISDAVLDACLEODPSDKYACETCTPKTNLVMFGELTT 60						
; Query Match 100.0%; Score 2083; DB 15; Length 392;						
Best Local Similarity 100.0%; Pred. No. 9 1e-191;						
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy 1 KANVDYEKIVRDTCTNFGVSNDVGLDADNCVKLVNIEQQSPLIAQSVHGLTLTRPBEIG 120						
Db 1 KANVDYEKIVRDTCTNFGVSNDVGLDADNCVKLVNIEQQSPLIAQSVHGLTLTRPBEIG 120						

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Qy 121 AGDQGHMFGYATDETEPLMLPLSHVATLKGARLTTEVKANGTCPWLRPDKGKQTYVBYND 180
 Db 121 AGDQGHMFGYATDETEPLMLPLSHVATLKGARLTTEVKANGTCPWLRPDKGKQTYVBYND 180

Qy 181 NGANVPVRHTVLISTODETVNDELAADLKEHVTIKPVIPKYLDEKTIFHLNPGRFV 240
 Db 181 NGANVPVRHTVLISTODETVNDELAADLKEHVTIKPVIPKYLDEKTIFHLNPGRFV 240

Qy 241 IGGPHGDAGLITGRKIIIDITYGGGAHKGGFAFSKQDPTKVDRSGAYIVRQAAXSIVASGLA 300
 Db 241 IGGPHGDAGLITGRKIIIDITYGGGAHKGGFAFSKQDPTKVDRSGAYIVRQAAXSIVASGLA 300

Qy 301 RRCIVQVSVAIYGPEPLSVFVDTYGTGKHDEILNWKENSDFRPGMISINLDLRGGN 360
 Db 301 RRCIVQVSVAIYGPEPLSVFVDTYGTGKHDEILNWKENSDFRPGMISINLDLRGGN 360

Qy 361 NRFLKTAAYGFGREDPDTWEVVKPLKWEKA 392
 Db 361 NRFLKTAAYGFGREDPDTWEVVKPLKWEKA 392

RESULT 2
 US-10-734-698A-39
 ; Sequence 39, Application US/10734698A
 ; Publication No. US20040200341A1
 ; GENERAL INFORMATION:
 ; APPLICANT: FALCO, SAVERIO CARL
 ; ALLEN, STEPHEN M.
 ; RAJALSKI, J. ANTONI
 ; HUTZ, WILLIAM D.
 ; KINNEY, ANTHONY J.
 ; ABEIL, LYNNIE N.
 ; THORPE, CATHERINE J.
 ; TITLE OF INVENTION: PLANT AMINO ACID BIOSYNTHETIC ENZYMES
 ; NUMBER OF SEQUENCES: 43
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
 ; STREET: 1007 MARKET STREET
 ; CITY: WILMINGTON
 ; STATE: DELAWARE
 ; COUNTRY: USA
 ; ZIP: 19898
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: DISKETTE, 3.50 INCH
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: MICROSOFT WINDOWS 95
 ; SOFTWARE: MICROSOFT WORD VERSION 7.0A
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/10/734,698A
 ; FILING DATE: 12-Dec-2003
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 60/048,771
 ; FILING DATE: 6-Jun-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: MAJARIAN, WILLIAM R.
 ; REGISTRATION NUMBER: 41-173
 ; REFERENCE/DOCKET NUMBER: BB-1087
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 302-992-4926
 ; TELEFAX: 302-773-0164
 ; INFORMATION FOR SEQ ID NO: 39:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 392 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: not relevant
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; IMMEDIATE SOURCE:
 ; CLONE: S2-12b06
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 39:
 ; US-10-734-698A-39

Query Match 100.0%; Score 2083; DB 16; Length 392;
 Best Local Similarity 100.0%; Pred. No. 9.1e-191; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAETFLFTSESYNEGHPDKLCDQISDAVLDACEDPDPSKVAEFCCTKTNLMVFGEITT 60
 Db 1 MAETFLFTSESYNEGHPDKLCDQISDAVLDACEDPDPSKVAEFCCTKTNLMVFGEITT 60

Qy 61 KANVDYEKIVRDTCTRNIGFVSNDFQDADCKVLVNIEOQSPDIQGVHGHITKRPBEG 120
 Db 61 KANVDYEKIVRDTCTRNIGFVSNDFQDADCKVLVNIEOQSPDIQGVHGHITKRPBEG 120

Qy 121 AGDQGHMFGYATDETEPLMLPLSHVATLKGARLTTEVKANGTCPWLRPDKGKQTYVBYND 180
 Db 121 AGDQGHMFGYATDETEPLMLPLSHVATLKGARLTTEVKANGTCPWLRPDKGKQTYVBYND 180

Qy 61 KANVDYEKIVRDTCTRNIGFVSNDFQDADCKVLVNIEOQSPDIQGVHGHITKRPBEG 120
 Db 61 KANVDYEKIVRDTCTRNIGFVSNDFQDADCKVLVNIEOQSPDIQGVHGHITKRPBEG 120

Qy 121 AGDQGHMFGYATDETEPLMLPLSHVATLKGARLTTEVKANGTCPWLRPDKGKQTYVBYND 180
 Db 121 AGDQGHMFGYATDETEPLMLPLSHVATLKGARLTTEVKANGTCPWLRPDKGKQTYVBYND 180

Qy 181 NGAMPYVRVHTVLISTODETVNTDEAIDLKEHVTIKPVIPKYLDEKTIFHLNPGRFV 240
 Db 181 NGAMPYVRVHTVLISTODETVNTDEAIDLKEHVTIKPVIPKYLDEKTIFHLNPGRFV 240

Qy 241 IGGPHGDAGLITGRKIIIDITYGGGAHKGGFAFSKQDPTKVDRSGAYIVRQAAXSIVASGLA 300
 Db 241 IGGPHGDAGLITGRKIIIDITYGGGAHKGGFAFSKQDPTKVDRSGAYIVRQAAXSIVASGLA 300

Qy 301 RRCIVQVSVAIYGPEPLSVFVDTYGTGKHDEILNWKENSDFRPGMISINLDLRGGN 360
 Db 301 RRCIVQVSVAIYGPEPLSVFVDTYGTGKHDEILNWKENSDFRPGMISINLDLRGGN 360

Qy 361 NRFLKTAAYGFGREDPDTWEVVKPLKWEKA 392
 Db 361 NRFLKTAAYGFGREDPDTWEVVKPLKWEKA 392

RESULT 3
 US-10-917-602A-39
 ; Sequence 39, Application US/10917602A
 ; Publication No. US20050120405A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Falco, Saverio Carl
 ; INVENTOR: Liu, Zhan-Bin
 ; FILE REFERENCE: BB-1087 US CIP
 ; CURRENT APPLICATION NUMBER: US/10/917,602A
 ; CURRENT FILING DATE: 2004-08-13
 ; PRIOR APPLICATION NUMBER: US 10/734698
 ; PRIOR FILING DATE: 2003-12-12
 ; PRIOR APPLICATION NUMBER: US 09/424978
 ; PRIOR FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: PCT/US98/11692
 ; PRIOR FILING DATE: 1998-06-05
 ; PRIOR APPLICATION NUMBER: 60/049,443
 ; PRIOR FILING DATE: 1997-06-12
 ; PRIOR APPLICATION NUMBER: US 60/048,771
 ; PRIOR FILING DATE: 1997-06-06
 ; NUMBER OF SEQ ID NOS: 69
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 39
 ; LENGTH: 392
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; US-10-917-602A-39

Query Match 100.0%; Score 2083; DB 17; Length 392;
 Best Local Similarity 100.0%; Pred. No. 9.1e-191; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAETFLFTSESYNEGHPDKLCDQISDAVLDACEDPDPSKVAEFCCTKTNLMVFGEITT 60
 Db 1 MAETFLFTSESYNEGHPDKLCDQISDAVLDACEDPDPSKVAEFCCTKTNLMVFGEITT 60

Qy 61 KANVDYEKIVRDTCTRNIGFVSNDFQDADCKVLVNIEOQSPDIQGVHGHITKRPBEG 120
 Db 61 KANVDYEKIVRDTCTRNIGFVSNDFQDADCKVLVNIEOQSPDIQGVHGHITKRPBEG 120

RESULT 4
 US-10-425-114-44212
 ; Sequence 44212, Application US/10425114
 ; Publication No. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovacic, David K.
 ; APPLICANT: Screen, Steven E.
 ; APPLICANT: Tabaska, Jack E.
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
 ; FILE REFERENCE: 38-21(53313)B
 ; CURRENT APPLICATION NUMBER: US/10/425, 114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO: 44833
 ; LENGTH: 395
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: 701150545_FLI.pep
 US-10-425-114-44833

Query Match 100.0%; Score 2083; DB 15; Length 395;
 Best Local Similarity 100.0%; Pred. No. 9_2e-191; Mismatches 0; Indels 0; Gaps 0;

Query 1 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 60
 Query 4 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 63

Db 61 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 120
 Db 64 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 123

Db 121 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 180
 Db 124 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 183

Db 181 NGAMVPVRHTVLISTQDETNTDEIAADLKHEVKIPEKYLDEKTIFHNPNSGRFV 240
 Db 184 NGAMVPVRHTVLISTQDETNTDEIAADLKHEVKIPEKYLDEKTIFHNPNSGRFV 243

Db 241 IGGPHGDAGLTKRKIIITDYGGAHGGFAFSKDPKIVDRSGAYIVRQAAKSVASGLA 300
 Db 244 IGGPHGDAGLTKRKIIITDYGGAHGGFAHSKDPKIVDRSGAYIVRQAAKSVASGLA 303

Db 301 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360

Query Match 100.0%; Score 2083; DB 15; Length 395;
 Best Local Similarity 100.0%; Pred. No. 9_2e-191; Mismatches 0; Indels 0; Gaps 0;

Query 1 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 60
 Query 4 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 63

Db 61 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 120
 Db 64 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 123

Db 121 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 180
 Db 124 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 183

Db 181 NGAMVPVRHTVLISTQDETNTDEIAADLKHEVKIPEKYLDEKTIFHNPNSGRFV 240
 Db 184 NGAMVPVRHTVLISTQDETNTDEIAADLKHEVKIPEKYLDEKTIFHNPNSGRFV 243

Db 241 IGGPHGDAGLTKRKIIITDYGGAHGGFAFSKDPKIVDRSGAYIVRQAAKSVASGLA 300
 Db 244 IGGPHGDAGLTKRKIIITDYGGAHGGFAHSKDPKIVDRSGAYIVRQAAKSVASGLA 303

Db 301 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360

Query Match 100.0%; Score 2083; DB 15; Length 395;
 Best Local Similarity 100.0%; Pred. No. 9_2e-191; Mismatches 0; Indels 0; Gaps 0;

Query 1 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 60
 Query 4 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 63

Db 61 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 120
 Db 64 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 123

Db 121 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 180
 Db 124 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 183

Db 181 NGAMVPVRHTVLISTQDETNTDEIAADLKHEVKIPEKYLDEKTIFHNPNSGRFV 240
 Db 184 NGAMVPVRHTVLISTQDETNTDEIAADLKHEVKIPEKYLDEKTIFHNPNSGRFV 243

Db 241 IGGPHGDAGLTKRKIIITDYGGAHGGFAFSKDPKIVDRSGAYIVRQAAKSVASGLA 300
 Db 244 IGGPHGDAGLTKRKIIITDYGGAHGGFAHSKDPKIVDRSGAYIVRQAAKSVASGLA 303

Db 301 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360

RESULT 5
 US-10-425-114-44833
 ; Sequence 44833, Application US/10425114
 ; Publication No. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovacic, David K.
 ; APPLICANT: Screen, Steven E.
 ; APPLICANT: Tabaska, Jack E.
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
 ; FILE REFERENCE: 38-21(53313)B
 ; CURRENT APPLICATION NUMBER: US/10/425, 114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO: 44833
 ; LENGTH: 395
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: 701150545_FLI.pep
 US-10-425-114-44833

Query Match 100.0%; Score 2083; DB 15; Length 395;
 Best Local Similarity 100.0%; Pred. No. 9_2e-191; Mismatches 0; Indels 0; Gaps 0;

Query 1 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 60
 Query 4 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 63

Db 61 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 120
 Db 64 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 123

Db 121 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 180
 Db 124 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 183

Db 181 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360
 Db 184 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 363

Db 241 IGGPHGDAGLTKRKIIITDYGGAHGGFAFSKDPKIVDRSGAYIVRQAAKSVASGLA 300
 Db 244 IGGPHGDAGLTKRKIIITDYGGAHGGFAHSKDPKIVDRSGAYIVRQAAKSVASGLA 303

Db 301 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360

Query Match 100.0%; Score 2083; DB 15; Length 395;
 Best Local Similarity 100.0%; Pred. No. 9_2e-191; Mismatches 0; Indels 0; Gaps 0;

Query 1 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 60
 Query 4 MAETFLFTSESYNEGHPKLQDQISDAVLDACLEQDPDSKVA CETCTKTNLYMVFGBITT 63

Db 61 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 120
 Db 64 KANVDYEKIVRDTCRNIGFVSNDVGLDDNCVKLVNIEQQSPDIAQGVHHLJTKRPEIG 123

Db 121 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 180
 Db 124 AGDQGHMFGYATDETEPLMPLSHVLTGARLTEVKRNGTCPWLRLPDKTQVTVYND 183

Db 181 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360
 Db 184 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 363

Db 241 IGGPHGDAGLTKRKIIITDYGGAHGGFAFSKDPKIVDRSGAYIVRQAAKSVASGLA 300
 Db 244 IGGPHGDAGLTKRKIIITDYGGAHGGFAHSKDPKIVDRSGAYIVRQAAKSVASGLA 303

Db 301 RRCIVQSYAIGVPEPLSVFDVTYGTGKIHDEKLINVKENFDFRPMISINDLKRGGN 360

RESULT 6
 US-10-425-114-55424
 ; Sequence 55424, Application US/10425114
 ; Publication No. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.
 APPLICANT: Screen, Steven E
 APPLICANT: Tabaska, Jack E
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53113)B
 CURRENT APPLICATION NUMBER: US/10/425,114
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 73128
 SEQ ID NO 55424
 LENGTH: 421
 TYPE: PRT
 ORGANISM: Glycine max
 FEATURE:
 OTHER INFORMATION: Clone ID: UC-GMFLMINSOY064D01_FLI.pep
 US-10-425-114-55424

Query Match 99.6%; Score 2074; DB 15; Length 421;
 Best Local Similarity 99.4e-130; Pred. No. 8.9e-190;
 Matches 390; Conservative 1; Indels 0; Gaps 0;

Qy 1 MAETPLFSESYNEGHPKLCDQISDAVLDACLEQDPDSKVACETCTKTNLVMVGEITT 60
 Db 22 MAETPLFSESYNEGHPKLCDQISDAVLDACLEQDPDSKVACETCTKTNLVMVGEITT 81
 Qy 61 KANVDYEKIVRDTCRNIGFVSNDVGLDADNCKVLYNIEQQSPDIAGVAGHLTKRPEBIG 120
 Db 82 KANVDYEKIVRDTCRNIGFVSNDVGLDADNCKVLYNIEQQSPDIAGVAGHLTKRPEBIG 141
 Qy 121 AGDQGHMFGRGYATDETPLEMPLSHVATLGARLTFRNGTCPWLRLPDGKTQVTVEYYND 180
 Db 142 AGDQGHMFGRGYATDETPLEMPLSHVATLGARLTFRNGTCPWLRLPDGKTQVTVEYYND 201
 Qy 181 NGAMYPVRVHTYLISSTQHDETVNTDEIAADIKEHVKPVIPKEKYLDEKTIIFHLNPSGRFV 240
 Db 202 NGARVPVRVHTVLISSTQHDETVNTDEIAADIKEHVKPVIPKEKYLDEKTIIFHLNPSGRFV 261
 Qy 241 IGGPHDAGLTGRKLJIDTYGGWGAHGGAFSGKOPTKDRSGAYTROAKSIVASGLA 300
 Db 262 IGGPHDAGLTGRKLJIDTYGGWGAHGGAFSGKOPTKDRSGAYTROAKSIVASGLA 321
 Qy 301 RRCIVQSYAIGVPPEPLSVFVDTYGTGKIHDKELINIVKENFDFFPGMISINLDLRGGN 360
 Db 322 RRCIVQSYAIGVPPEPLSVFVDTYGTGKIHDKELINIVKENFDFFPGMISINLDLRGGN 381
 Qy 361 NRPLKTAAYGHFGRDPDFTEWVVKPLKWEKA 392
 Db 382 NRPLKTAAYGHFGRDPDFTEWVVKPLKWEKA 413

RESULT 8
 US-10-425-114-43817
 Sequence 43817, Application US/10425114
 Publication No. US2004034888A1
 GENERAL INFORMATION:
 APPLICANT: Liu, Jingdong
 APPLICANT: Zhou, Yihua
 APPLICANT: Kovacic, David K.
 APPLICANT: Screen, Steven E
 APPLICANT: Tabaska, Jack E
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53113)B
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 73128
 SEQ ID NO 43817
 TYPE: PRT
 FEATURE:
 OTHER INFORMATION: Glycine max
 US-10-425-114-43817

Query Match 99.5%; Score 2073; DB 15; Length 414;
 Best Local Similarity 99.2%; Pred. No. 9e-190;
 Matches 389; Conservative 2; Indels 0; Gaps 0;

Qy 1 MAETPLFSESYNEGHPKLCDQISDAVLDACLEQDPDSKVACETCTKTNLVMVGEITT 60
 Db 23 MAETPLFSESYNEGHPKLCDQISDAVLDACLEQDPDSKVACETCTKTNLVMVGEITT 82
 Qy 61 KANVDYEKIVRDTCRNIGFVSNDVGLDADNCKVLYNIEQQSPDIAGVAGHLTKRPEBIG 120
 Db 83 KANVDYEKIVRDTCRNIGFVSNDVGLDADNCKVLYNIEQQSPDIAGVAGHLTKRPEBIG 142

RESULT 7
 US-10-425-114-55057
 Sequence 55057, Application US/10425114
 Publication No. US2004034888A1
 GENERAL INFORMATION:
 APPLICANT: Liu, Jingdong
 APPLICANT: Zhou, Yihua
 APPLICANT: Kovalic, David K.
 APPLICANT: Screen, Steven E
 APPLICANT: Tabaska, Jack E
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53113)B
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 55057
 LENGTH: 413
 TYPE: PRT
 ORGANISM: Glycine max
 FEATURE:

APPLICANT: Tabaska, Jack E
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Plants and Other Molecules Associated With
 FILE REFERENCE: 38-21(5313)B
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 73128
 SEQ ID NO 55959
 LENGTH: 420
 TYPE: PRT
 ORGANISM: Glycine max
 FEATURE: OTHER INFORMATION: Clone ID: 7011231183_FLI.pep
 US-10-425-114-55959

Query Match 99.5%; Score 2073; DB 15; Length 420;
 Best Local Similarity 99.2%; Pred. No. 9.2e-190;
 Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MAETFLFTSSEVNECHPDKLCDQISDAVLDACLEQDPSKVAECTCTKTNLVMYGEITT 60
 Db 30 MAETFLFTSSEVNECHPDKLCDQISDAVLDACLEQDPSKVAECTCTKTNLVMYGEITT 89

Qy 61 KANVYEKIVRDTCKNIGFVSNDVGLDADNCVKLVNIEQSPDIAGVGHGLTKRPEEIG 120
 Db 90 KANVYEKIVRDTCKNIGFVSNDVGLDADNCVKLVNIEQSPDIAGVGHGLTKRPEEIG 149

Qy 121 AGDOGHMFGYATDETEPLMLPISHVATKIGARLTVEKRGTCPWLRPGKTRQTVTEYYND 180
 Db 150 AGDOGHMFGYATDETEPLMLPISHVATKIGARLTVEKRGTCPWLRPGKTRQTVTEYYND 209

Qy 181 NGAMYPVRVHTVLISTQHDETNTDEIAADLKEHVTKPVIPKYLDEKTIFHLNPSGRFV 240
 Db 210 NGARPBIRVHTVLISTQHDETNTDEIAADLKEHVTKPVIPKYLDEKTIFHLNPSGRFV 269

Qy 241 IGGPHGDAGITGRKIIIDTYGGHGGAFSGKDPTKVDGAYTQRQAKSTVAGLA 300
 Db 270 IGGPHGDAGITGRKIIIDTYGGHGGAFSGKDPTKVDGAYTQRQAKSTVAGLA 329

Qy 301 RRCIVQSYAIGVPBPLSVFDVTYGTGKTHDKETLINVKENFDPRGMISINLDLKRGN 360
 Db 330 RRCIVQSYAIGVPBPLSVFDVTYGTGKTHDKETLINVKENFDPRGMISINLDLKRGN 389

Qy 361 NRFLKTAAYGFREDPDTWVVKPLKNEKA 392
 Db 390 NRFLKTAAYGFREDPDTWVVKPLKNEKA 421

RESULT 13
 US-10-425-114-46284 ; Sequence 46284, Application US/10425114
 ; Publication No. US2004003488A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; ATTORNEY/AGENT: Zhou, Yihua
 ; APPLICANT: Kovacic, David K.
 ; APPLICANT: Screen, Steven E.
 ; APPLICANT: Tabaska, Jack E
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; PLANTS AND USES THEREOF for Plant Improvement
 ; FILE REFERENCE: 38-21(5313)B
 ; CURRENT APPLICATION NUMBER: US/10/425,114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO 46284
 ; LENGTH: 421
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: 701137731_FLI.pep
 US-10-425-114-46284

Query Match 99.5%; Score 2073; DB 15; Length 421;
 Best Local Similarity 99.2%; Pred. No. 9.2e-190;
 Matches 389; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MAETFLFTSSEVNECHPDKLCDQISDAVLDACLEQDPSKVAECTCTKTNLVMYGEITT 60
 Db 30 MAETFLFTSSEVNECHPDKLCDQISDAVLDACLEQDPSKVAECTCTKTNLVMYGEITT 89

Qy 61 KANVYEKIVRDTCKNIGFVSNDVGLDADNCVKLVNIEQSPDIAGVGHGLTKRPEEIG 120
 Db 90 KANVYEKIVRDTCKNIGFVSNDVGLDADNCVKLVNIEQSPDIAGVGHGLTKRPEEIG 149

Qy 121 AGDOGHMFGYATDETEPLMLPISHVATKIGARLTVEKRGTCPWLRPGKTRQTVTEYYND 180

Db	150 AGDQGHMFGYATDETEPLMLPSHLVTLATLGARLTERVKNGTCPWLRPDGKTQVTVEYYND	209	Db	390 NRFLKTAAYGHFGRDDFTWEVKPLKWEKA	421	
Qy	181 NGAMVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	240				
Db	210 NGARVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	269				
Qy	241 IGGPHGDAGITGRKLIIIDTYGGGAHKGGAFSKDPTKVDRSGAYIVRQAAKSIVASGLA	300				
Db	270 IGGPHGDAGITGRKLIIIDTYGGGAHKGGAFSKDPTKVDRSGAYIVRQAAKSIVASGLA	329				
Qy	301 RRCIVQSYAIGVPEPLSVFVDITYGTGKHDEKLNIVKENFDRPGMISINLDLKRGGN	360				
Db	330 RRCIVQSYAIGVPEPLSVFVDITYGTGKHDEKLNIVKENFDRPGMISINLDLKRGGN	389				
Qy	361 NRFLKTAAYGHFGRDDFTWEVKPLKWEKA	421				
Db	390 NRFLKTAAYGHFGRDDFTWEVKPLKWEKA	421				
	RESULT 14					
	Sequence 51-14-51724					
	Publication No. US20040034888A1					
	GENERAL INFORMATION:					
	APPLICANT: Liu, Jingdong					
	ORGANISM: Glycine max					
	FEATURE: OTHER INFORMATION: Plants and Uses Thereof for Plant Improvement					
	FILE REFERENCE: 38-21(53313)B					
	CURRENT APPLICATION NUMBER: US/10/425,114					
	CURRENT FILING DATE: 2003-04-28					
	NUMBER OF SEQ ID NOS: 73128					
	SEQ ID NO 51724					
	Length: 421					
	TYPE: PRT					
	OTHER INFORMATION: Clone ID: 7007511645_FLI.pep					
	US-10-425-114-51724					
	Sequence 51-14-51724					
	Publication No. US20040034888A1					
	GENERAL INFORMATION:					
	APPLICANT: Liu, Jingdong					
	ORGANISM: Glycine max					
	FEATURE: OTHER INFORMATION: Plants and Uses Thereof for Plant Improvement					
	FILE REFERENCE: 38-21(53313)B					
	CURRENT APPLICATION NUMBER: US/10/425,114					
	CURRENT FILING DATE: 2003-04-28					
	NUMBER OF SEQ ID NOS: 73128					
	SEQ ID NO 51724					
	Length: 421					
	TYPE: PRT					
	ORGANISM: Glycine max					
	FEATURE: OTHER INFORMATION: Clone ID: 700961178_FLI.pep					
	US-10-425-114-51724					
	Query Match	99.5%	Score 2073; DB 15;	Length 421;		
	Best Local Similarity	99.2%	Pred. No. 9.2e-190;			
	Matches	389;	Mismatches	1;		
	Indels	0;	Gaps	0;		
	Qy	1 MAETPLFSEVSNEGHPKDLCDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT	60	Qy	1 MAETPLFSEVSNEGHPKDLCDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT	60
	Db	20 MAETPLFSEVSNEGHPKDLCDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT	89	Db	30 MAETPLFSEVSNEGHPKDLCDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT	89
	Qy	61 KANDYKEIVKVRDTCRNIGFVSNVDGLADDNCRKLVNIEQQSPDIAQGVHGLTRKPEEIG	120	Qy	61 KANDYKEIVKVRDTCRNIGFVSNVDGLADDNCRKLVNIEQQSPDIAQGVHGLTRKPEEIG	120
	Db	90 KANDYKEIVKVRDTCRNIGFVSNVDGLADDNCRKLVNIEQQSPDIAQGVHGLTRKPEEIG	149	Db	90 KANDYKEIVKVRDTCRNIGFVSNVDGLADDNCRKLVNIEQQSPDIAQGVHGLTRKPEEIG	149
	Qy	121 AGDQGMFGYATDETEPLMLPSHVTLATKGARLTTRKPEEIG	180	Qy	121 AGDQGMFGYATDETEPLMLPSHVTLATKGARLTTRKPEEIG	180
	Db	150 AGDQGMFGYATDETEPLMLPSHVTLATKGARLTTRKPEEIG	209	Db	150 AGDQGMFGYATDETEPLMLPSHVTLATKGARLTTRKPEEIG	209
	Query Match	99.5%	Score 2073; DB 15;	Length 421;		
	Best Local Similarity	99.2%	Pred. No. 9.2e-190;			
	Matches	389;	Mismatches	2;		
	Indels	0;	Gaps	0;		
	Qy	1 MAETPLFSEVSNEGHPKDLCDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT	60	Qy	151 NGAMVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	240
	Db	20 MAETPLFSEVSNEGHPKDLCDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT	89	Db	210 NGARVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	269
	Qy	61 KANDYKEIVKVRDTCRNIGFVSNVDGLADDNCRKLVNIEQQSPDIAQGVHGLTRKPEEIG	120	Qy	152 NGARVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	329
	Db	90 KANDYKEIVKVRDTCRNIGFVSNVDGLADDNCRKLVNIEQQSPDIAQGVHGLTRKPEEIG	149	Db	270 IGGPHGDAGITGRKLIIIDTYGGAHGGAFSGKOPTKVDRSGAYIVRQAAKSIVASGLA	300
	Qy	121 AGDQGMFGYATDETEPLMLPSHVTLATKGARLTTRKPEEIG	180	Qy	241 IGGPHGDAGITGRKLIIIDTYGGAHGGAFSGKOPTKVDRSGAYIVRQAAKSIVASGLA	300
	Db	150 AGDQGMFGYATDETEPLMLPSHVTLATKGARLTTRKPEEIG	209	Db	270 IGGPHGDAGITGRKLIIIDTYGGAHGGAFSGKOPTKVDRSGAYIVRQAAKSIVASGLA	329
	Qy	181 NGAMVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	240	Qy	301 RRCIVQSYAIGVPEPLSVFVDITYGTGKHDEKLNIVKENFDRFGMISINLDLKRGGN	360
	Db	210 NGARVPVRHTVLISTOHDETVTNDEIAADLKHEVKVPIPEKYLDEKTIFHLPNSGRFV	269	Db	330 RRCIVQSYAIGVPEPLSVFVDITYGTGKHDEKLNIVKENFDRFGMISINLDLKRGGN	389
	Qy	241 IGGPHGDAGITGRKLIIIDTYGGAHGGAFSGKOPTKVDRSGAYIVRQAAKSIVASGLA	300	Qy	361 NRFLKTAAYGHFGRDDFTWEVKPLKWEKA	392
	Db	270 IGGPHGDAGITGRKLIIIDTYGGAHGGAFSGKOPTKVDRSGAYIVRQAAKSIVASGLA	329	Db	390 NRFLKTAAYGHFGRDDFTWEVKPLKWEKA	421
	Qy	301 RRCIVQSYAIGVPEPLSVFVDITYGTGKHDEKLNIVKENFDRFGMISINLDLKRGGN	360			
	Db	330 RRCIVQSYAIGVPEPLSVFVDITYGTGKHDEKLNIVKENFDRFGMISINLDLKRGGN	389			
	Qy	361 NRFLKTAAYGHFGRDDFTWEVKPLKWEKA	392			

Search completed: September 12, 2005, 21:10:57
Job time : 569 secs

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OM protein - protein search, using sw model

Run on: September 12, 2005, 14:28:42 ; Search time 30 Seconds
(without alignments)

975.414 Million cell updates/sec

Title: US-10-734-698A-39
Perfect score: 2033
Sequence: 1 MAETFLIFTSESVNEGHDPDKL.....GREDDFFTWEVKPLKWEKA 392

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6_ptodata/1/iaa/5A_COMB.pep:
2: /cgn2_6_ptodata/1/iaa/5B_COMB.pep:
3: /cn2_6_ptodata/1/iaa/6A_COMB.pep:
4: /cgn2_6_ptodata/1/iaa/6B_COMB.pep:
5: /cgn2_6_ptodata/1/iaa/BCTUS_COMBO.pep:
6: /cgn2_6_ptodata/1/iaa/backfile1.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2083	100.0	392	4	US-09-424-978B-39
2	1946	93.4	396	4	US-09-424-978B-36
3	1891.5	90.8	394	4	US-09-424-978B-42
4	1316.5	63.2	394	4	US-09-976-594-471
5	1316.5	63.2	416	4	US-09-949-016-10059
6	1280.5	61.5	390	4	US-09-248-796A-18235
7	1274.5	61.2	395	4	US-09-949-016-5939
8	1274.5	61.2	401	4	US-09-949-016-7659
9	1102	52.9	404	4	US-09-107-532A-6821
10	1086	52.1	387	4	US-09-543-681A-7130
11	1068.5	51.3	385	4	US-09-489-039A-11917
12	1062.5	51.0	396	4	US-09-583-110-2778
13	1062.5	51.0	405	4	US-09-107-433-2830
14	1061.5	51.0	396	3	US-09-273-686-2
15	1055	50.6	395	4	US-09-328-352-6660
16	1042.5	50.0	415	3	US-09-134-001C-5077
17	1040	49.9	388	4	US-09-540-236-3444
18	1028.5	49.4	402	2	US-09-403-852D-19
19	1028.5	49.4	402	3	US-09-510-646B-20
20	1028.5	49.4	402	3	US-09-231-818-19
21	1028.5	49.4	402	4	US-09-635-359B-19
22	1006	48.3	407	3	US-09-95-95T-2
23	1000.5	48.0	401	4	US-09-252-991A-19899
24	832	39.9	332	3	US-09-320-878-16
25	832	39.9	332	4	US-09-14-908-20
26	832	39.9	313	4	US-09-657-440-16
27	803.5	38.6	313	4	US-09-902-540-10716

ALIGNMENTS

RESULT 1
US-09-424-978B-39
; Sequence 39, Application US/09424978B
; Patent No. 666445

; GENERAL INFORMATION:

; APPLICANT: Falco, Saverio Carl
; ALLEN, Stephen M.
; APPLICANT: Rafalski, J. Antoni
; Hitz, William D.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Abel, Lynne N.
; Thorpe, Catherine J.
; TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes
; FILE REFERENCE: BB-1087
; CURRENT APPLICATION NUMBER: US/09/424,978B
; CURRENT FILING DATE: 1999-12-02
; PRIORITY NUMBER: US 60/0048, 771
; PRIORITY FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39
; LENGTH: 392
; TYPE: PRT
; ORGANISM: Glycine max
US-09-424-978B-39

Query Match 100.0%; Score 2083; DB 4; Length 392;
Best Local Similarity 100.0%; Pred. No. 4.1e-212;
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 2083; DB 4; Length 392;
Best Local Similarity 100.0%; Pred. No. 4.1e-212;
Matches 392; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MAETFLIFTSESYNEGHDPDKLCDQISDAVLDACLEQDDSKVACETCTKTNLVMVFBITT 60
Db 1 MAETFLIFTSESYNEGHDPDKLCDQISDAVLDACLEQDDSKVACETCTKTNLVMVFBITT 60

Qy 1 KANVDYEVKIVRDTCRNIGFVNDVGLDADNCKVLUINEQQSPDIAGVHGLTKRBRBEG 120
Db 1 KANVDYEVKIVRDTCRNIGFVNDVGLDADNCKVLUINEQQSPDIAGVHGLTKRBRBEG 120

Qy 1 AGDQGMFGYATDEPEMLPLSHVLAALKGARLTYRKNGTCPWLRPDGKHQVTVEYND 180
Db 1 AGDQGMFGYATDEPEMLPLSHVLAALKGARLTYRKNGTCPWLRPDGKHQVTVEYND 180

Qy 1 KANVDYEVKIVRDTCRNIGFVNDVGLDADNCKVLUINEQQSPDIAGVHGLTKRBRBEG 120
Db 1 KANVDYEVKIVRDTCRNIGFVNDVGLDADNCKVLUINEQQSPDIAGVHGLTKRBRBEG 120

Qy 1 NGAMPVVRVHTVLISTQHDETYNTDEADLKHEVTKPVIPEKYLDEKTIFHLNPSGRFV 240
Db 1 NGAMPVVRVHTVLISTQHDETYNTDEADLKHEVTKPVIPEKYLDEKTIFHLNPSGRFV 240

Qy 1 NGAMPVVRVHTVLISTQHDETYNTDEADLKHEVTKPVIPEKYLDEKTIFHLNPSGRFV 240
Db 1 NGAMPVVRVHTVLISTQHDETYNTDEADLKHEVTKPVIPEKYLDEKTIFHLNPSGRFV 240

Qy 301 RRCIVQSYAIGVPEPLSVFVDTYGTGKJHDKEILNIVKENDFRPGMISINLDLRGN 360
 Db 301 RRCIVQSYAIGVPEPLSVFVDTYGTGKJHDKEILNIVKENDFRPGMISINLDLRGN 360

Qy 361 NRELKTAAYGHFREDPFTWVKPLKWEKA 392
 Db 361 NRELKTAAYGHFREDPFTWVKPLKWEKA 392

RESULT 2
 US-09-124-978B-36
 ; Sequence 36, Application US/09424978B
 ; Patent No. 666445
 ; GENERAL INFORMATION:
 ; APPLICANT: Falco, Saverio Carl
 ; APPLICANT: Allen, Stephen M.
 ; APPLICANT: Rafalski, J. Antoni
 ; APPLICANT: Hitz, William D.
 ; APPLICANT: Kinney, Anthony J.
 ; APPLICANT: Thorpe, Catherine J.
 ; APPLICANT: Abell, Lynne N.
 ; TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes
 ; FILE REFERENCE: BB-1087
 ; CURRENT APPLICATION NUMBER: US/09/424,978B
 ; CURRENT FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: US 60/048,771
 ; PRIOR FILING DATE: 1997-06-06
 ; NUMBER OF SEQ ID NOS: 43
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 42
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 42
 ; LENGTH: 394
 ; TYPE: PRT
 ; ORGANISM: Triticum aestivum
 ; US-09-424-978B-42

Query Match 90.8%; score 1891.5; DB 4; Length 394;
 Best Local Similarity 90.8%; Pred. No. 8.7e-192;
 Matches 355; Conservative 18; Mismatches 17; Indels 1; Gaps 1;

Qy 2 AETFLFTSESYNEGHFDPKLQCDQISDAVLDALEQDPSKVACETCTKTNLVMFGEITTK 61
 Db 3 AETFLFTSESYNEGHFDKLQCDQVSDAVLDAQADSKVACETVKTNNVMVLGTTK 62

Qy 62 ANVDYEKIVRDTCRNIGFVSNYGLDADNCKVLYNIEQSPDIAQGVHGHLTKRPEEIGA 121
 Db 63 ATVDYEKIVRDTCRNIGFISDDVGLDADRKVLYNIEQSPDIAQGVHGHFTKRPEEVEGA 122

Qy 122 GDQHMGFYATDETPEMPILSHVLAFLKGARLTERKNGTCPWLREDGKTVQTYVYNDN 181
 Db 123 GDQHMGFYATDETPEMPILKHVLAFLKGARLTERKNGCAWWRDGKTVQTYVYNDN 182

Qy 182 GAMVPVRVHTVLISTOHDETYTNDEAIDLKEHVKPVIPKEYLDEKTIFHLPNSGRFV 241
 Db 183 GAMVPVRVHTVLISTOHDETYTNDEAIDLKEHVKPVIPAKYLDNTIFHLPNSGRFV 242

Qy 242 GGPHGDAGLIGRKIIIDTYGGWGAHGGAFSGKDPTKVDRSGAYIVROAAKSIVASGLAR 301
 Db 243 GGPHGDAGLIGRKIIIDTYGGWGAHGGAFSGKDPTKVDRSGAYARQAASVIASGLAR 302

Qy 302 RCIVQSYAIGVPEPLSVFVDTYGTGKJHDKEILNIVKENDFRPGMISINLDLRGNN 361
 Db 303 RCIVQSYAIGVPEPLSVFVDSYGTGKIPDRTEILKVKENDFRPGMISINLDLKGGS-N 361

Db 362 RFLKTAAYGHFREDPFTWVKPLKWEKA 392
 ; SEQ ID NO 471 Application US/09976594
 ; Patent No. 6673549
 ; GENERAL INFORMATION:
 ; APPLICANT: Furness, Michael
 ; APPLICANT: Buchbinder, Jenny
 ; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
 ; FILE REFERENCE: PA-00411 US
 ; CURRENT APPLICATION NUMBER: US/09/976,594
 ; CURRENT FILING DATE: 2001-10-12
 ; PRIOR APPLICATION NUMBER: 60/240,409
 ; PRIOR FILING DATE: 2000-10-12
 ; NUMBER OF SEQ ID NOS: 1143
 ; SOFTWARE: Perl Program
 ; SEQ ID NO 471
 ; LENGTH: 395
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens

RESULT 3
 US-09-124-978B-42
 ; Sequence 42, Application US/09424978B
 ; Patent No. 666445
 ; GENERAL INFORMATION:

FEATURE: misc feature
 OTHER INFORMATION: Incyte ID No. 6673549 2600262CD1
 US-09-976-594-471

Query Match Score 1316.5; DB 4; Length 395;
 Best Local Similarity 65.8%; Pred. No. 9.2e-131;
 Matches 254; Conservative 49; Mismatches 76; Indels 7; Gaps 3;

Qy 4 TELFTSEVNENGPDKLQDISDAVLDACLEQDPSKACETCTKTNLVMVGEITTKAN 63
 Db 17 TELFTSEVNENGPDKLQDISDAVLDAHLQQDPDAKACETVAKTMILLAGEITSSRAA 76
 Qy 64 VDYEKIVRDTCRNTGFVSNDVGLDAADNCKVLYNEQQSPDIAGSVRHGLTRKPEEIGGD 123
 Db 77 VDQKVVREAVKHIGYDDSSKGDPYKTCNVLVALEQQSPDIAGV - HLDRNEEDIGGD 134
 Qy 124 QGMFEGTATDETEPLMPLSHVILATKLGARLTLEVKGNTCPWLRPDKTQVTVYNDNGA 183
 Db 135 QGMFEGTATDETECMLTIVLAKLNKLAELLRNGTLPWLRPDSKQVTVQMDRG A 194

Qy 184 MYPVRVHTVLISQHDETTNDEIAADKEHYKPVIFPEKYLDEKTIFHLNSGRFVGG 243
 Db 195 VLPTRVHTIVSVDERVCLDEMRLDAKEVYKAWPEKYLDEDTIHLQPSGRFVGG 254

Qy 244 PHDAGLIGRKIIIDTYGGWAHGGASGKOPTKVDGATVROAKSTVASGLARC 303
 Db 255 PGDAGLIGRKIIIDTYGGWAHGGASGKOPTKVDSSAAAYARWTKSLVKGGLCRV 314

Qy 304 IVQSYAIGVPEPLSVFVDFDTYGTGKIHDKETLNUVKENFDPRGMISTNLDLKRGGNRF 363
 Db 315 LVQSYAIGVSHPLSISFHGRSQKSRELLIVKNDLQRGVIVRDLKX--PIY 371

Qy 364 LKTAAYGHFGRDPDFTWVVKPLK W 389
 Db 372 QRTAYGHFGRD--SFPEVPKLKV 395

RESULT 5
 US-09-949-016-10059
 ; Sequence 10059, Application US/0949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: METHODS OF DETECTION AND USES THEREOF
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 10059
 ; LENGTH: 416
 ; TYPE: PRT
 ; ORGANISM: Human
 ; FEATURE: misc feature
 ; OTHER INFORMATION: CIO01307

Query Match Score 1316.5; DB 4; Length 416;
 Best Local Similarity 65.8%; Pred. No. 1e-130;
 Matches 254; Conservative 49; Mismatches 76; Indels 7; Gaps 3;

Qy 4 TELFTSEVNENGPDKLQDISDAVLDACLEQDPSKACETCTKTNLVMVGEITTKAN 63
 Db 38 TELFTSEVNENGPDKLQDISDAVLDAHLQQDPDAKACETVAKTMILLAGEITSSRAA 97
 Qy 64 VDYEKIVRDTCRNTGFVSNDVGLDAADNCKVLYNEQQSPDIAGSVRHGLTRKPEEIGGD 123

Db 98 VDQKVVREAVKHIGYDDSSKGFDYKTCNVLVALEQQSPDIAGV - HLDRNEEDIGGD 155
 Qy 124 QGMFEGTATDETEPLMPLSHVILATKLGARLTLEVKGNTCPWLRPDKTQVTVYNDNGA 183
 Db 156 QGMFEGTATDETECMLTIVLAKLNKLAELLRNGTLPWLRPDSKQVTVQMDRG A 215

Qy 184 MYPVRVHTVLISQHDETTNDEIAADKEHYKPVIFPEKYLDEKTIFHLNSGRFVGG 243
 Db 216 VLPTRVHTIVSVDERVCLDEMRLDAKEVYKAWPEKYLDEDTIHLQPSGRFVGG 275

Qy 244 PHDAGLIGRKIIIDTYGGWAHGGASGKOPTKVDGATVROAKSTVASGLARC 303
 Db 276 PGDAGLIGRKIIIDTYGGWAHGGASGKOPTKVDSSAAAYARWTKSLVKGGLCRV 335

Qy 304 IVQSYAIGVPEPLSVFVDFDTYGTGKIHDKETLNUVKENFDPRGMISTNLDLKRGGNRF 363
 Db 336 LVQSYAIGVSHPLSISFHGRSQKSRELLIVKNDLQRGVIVRDLKX--PIY 392

Qy 364 LKTAAYGHFGRDPDFTWVVKPLK W 389
 Db 393 QRTAYGHFGRD--SFPEVPKLKV 416

RESULT 6
 US-09-248-796A-18255
 ; Sequence 18255, Application US/09248796A
 ; Patent No. 674137
 ; GENERAL INFORMATION:
 ; APPLICANT: Keith Weinstock et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
 ; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 107196.1.12
 ; CURRENT APPLICATION NUMBER: US/09/248,796A
 ; CURRENT FILING DATE: 1999-02-12
 ; PRIOR APPLICATION NUMBER: US 60/074,725
 ; PRIOR FILING DATE: 1998-02-13
 ; PRIOR APPLICATION NUMBER: US 60/096,409
 ; PRIOR FILING DATE: 1998-08-13
 ; NUMBER OF SEQ ID NOS: 28208
 ; SEQ ID NO 18255
 ; LENGTH: 390
 ; TYPE: PRT
 ; ORGANISM: Candida albicans
 ; FEATURE: misc feature
 ; OTHER INFORMATION: CIO01307

Query Match Score 1280.5; DB 4; Length 390;
 Best Local Similarity 62.5%; Pred. No. 6e-127;
 Matches 242; Conservative 56; Mismatches 82; Indels 7; Gaps 3;

Qy 3 ETPLFTSEVNENGPDKLQDISDAVLDACLEQDPSKACETCTKTNLVMVGEITTKA 62
 Db 11 ETPLFTSEVNENGPDKLQDISDAVLDACLAVDPLSKVACETAATGMMVFGEITTKA 70

Qy 63 NVDYEKIVRDTCRNTGFVSNDVGLDADNCKVLYNEQQSPDIAGSVRHGLTRKPEEIGGD 122
 Db 71 QLDYKIIIRDTHKIGYDSEKGPYKTCNVLVALEQQSPDIAGL - HYEKALEBLGG 128

Qy 123 DQGMFEGTATDETEPLMPLSHVILATKLGARLTLEVKGNTCPWLRPDKTQVTVYNDNG 182
 Db 129 DQGMFEGTATDETECMLTIVLAKLNKLAELLRNGTLPWLRPDSKQVTVQMDRG A 188

Qy 183 AMPVVRVHTVLISQHDETTNDEIAADKEHYKPVIFPEKYLDEKTIFHLNSGRFVGG 242

Db 189 AVPKRVDTIVTIVSVDERVCLDEMRLDAKEVYKAWPEKYLDEDTIHLQPSGRFVGG 248

Qy 243 GPHDAGLIGRKIIIDTYGGWAHGGASGKOPTKVDGATVROAKSTVASGLARC 302
 Db 249 GPQDAGLIGRKIIIDTYGGWAHGGASGKOPTKVDSSAAAYARWTKSLVKGGLCRV 308

Qy 303 CIVQSYAIGVPEPLSVFVDFDTYGTGKIHDKETLNUVKENFDPRGMISTNLDLKRGGNRF 362
 Db 309 ALVQSYAIGVAEPTSIYDRTGSKUSTEALVEIKANFDLQRGVIVKELDLAR--PI 365

Qy 363 FLKTAAYGHFGRDPDTWVVKPLKW 389
 Db 366 YPKTASYGHFTNQEN-SWEQFRKLKF 390

RESULT 7
 US-09-949-016-5939
 ; Sequence 5939, Application US/09949016
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CLO01307
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/12339
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: Fast-SEQ for Windows Version 4.0
 ; SEQ ID NO: 5939
 ; LENGTH: 395
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-09-949-016-5939

Query Match 61.2%; Score 1274.5; DB 4; Length 401;
 Best Local Similarity 62.9%; Pred. No. 2.6e-126;
 Matches 241; Conservative 61; Mismatches 74; Indels 7; Gaps 3;

Qy 5 FLFTSESYNEGHFDKLCDOISDAVLDACLEQDPDSKVACETCTKTNLVMVGETITKANV 64
 Db 24 FMFTSSVGSHPDKICDQISDAVLDAHLKQDPNKAACETVKCKGMVLGEISMAMV 83

Qy 5 FLFTSESYNEGHFDKLCDOISDAVLDACLEQDPDSKVACETCTKTNLVMVGETITKANV 64
 Db 24 FMFTSSVGSHPDKICDQISDAVLDAHLKQDPNKAACETVKCKGMVLGEISMAMV 83

Qy 65 DYEKVYRDTCRNIGFSNDVGLDAONCKVLYNIEBQSPDIAQVGHHLTKRPEETGAGDQ 124
 Db 84 DYQRVYRDTKHGIDDSAKGFDPCTCNVLVALBQSPDIAQCV-HLDRNEEDVGAGDQ 141

Qy 125 GHMFGYATDEPFLMPLSHVLAHKARLTVEKRNGTCPLRDPDKTQTVTYEYNDNGAM 184
 Db 142 GLMFGYATDEECMLTILAHKLNARMADLRSGLLPNRPDKTQTVYQMDNGAV 201

Qy 185 VPVRHTVLISTQHDETVTNDIAADLKEHVKPVIPEKYLDEKTIFHLPSGRFTVGGP 244
 Db 202 IPVRHTVLISTQHDETVTNDIAADLKEHVKPVIPEKYLDEKTIFHLPSGRFTVGGP 261

Qy 245 HGDAGLTRKLIIDTYGGGAHGGGAFSGKDPTKVDRGAYIVRQAKSIVASGLARRCI 304
 Db 262 QGDAGVTRKLIIDTYGGGAHGGGAFSGKDPTKVDRGAYIVRQAKSIVASGLARRCI 321

Qy 305 VQSYAIGVPPBLSVFVTDYTGKHDKEILNIVKENFDPRGMSINIDLKGNNRFL 364
 Db 322 VQSYAIGVAAEPLS-SIFTGTSQTTERELDVKHNFDLRPGVTVRDLOLK--PIYO 378

Qy 365 KTAAYGHFGRDPDTWVVKPL 387
 Db 379 KTACIGHFGRS-EFPMEVPRKL 399

RESULT 9
 US-09-107-532A-6821
 ; Sequence 6821, Application US/09107532A
 ; Patent No. 6593275
 ; GENERAL INFORMATION:
 ; APPLICANT: Lynn A. Doucette-Stamm and David Bush
 ; TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO
 ; NUMBER OF SEQUENCES: ENTEROCOCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
 ; STREET: 100 Beaver Street
 ; CITY: Waltham
 ; STATE: Massachusetts
 ; COUNTY: USA
 ; ZIP: 02354
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: CD/ROM ISO9660
 ; COMPUTER: PC
 ; OPERATING SYSTEM: <Unknown>
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/107,532A
 ; FILING DATE: 30-Jun-1998
 ; PRIORITY DATA:
 ; PRIORITY NUMBER: US/09/107,532A
 ; FILING DATE: 30-Jun-1998
 ; PRIORITY APPLICATION DATA:

RESULT 8
 US-09-949-016-7658
 ; Sequence 7658, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CLO01307
 ; CURRENT APPLICATION NUMBER: US/09/949, 016

APPLICATION NUMBER: 60/085,598
 FILING DATE: 14 May 1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Arinello, Pamela Denieke
 REGISTRATION NUMBER: 40,489
 REFERENCE/DOCKET NUMBER: GTC-012
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (781)893-5007
 TELEFAX: (781)893-8277
 INFORMATION FOR SEQ ID NO: 6821:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 404 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: YES
 ORIGINAL SOURCE:
 ORGANISM: Enterococcus faecium
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (B) LOCATION 1...404
 SEQUENCE DESCRIPTION: SEQ ID NO: 6821;
 US-09-107-532A-6821

Query Match Score 102; DB 4; Length 404;
 Best Local Similarity 52.9%; Pred. No. 5_6e-108;
 Matches 223; Conservative 56; Indels 14; Gaps 5;

Qy 1 MAETFLFTSEVNEGHFD-KLCDQISDAVLDALEQDDSKVACETCTKTNLVMVEGETITKVN 59
 Db 7 MVEHHLFTSEVSRRHKRKAIDDTAQLDIAKTTGKLVLFEGIS 66

Qy 60 TKANDYKEIVRDTORNIGFVSNVDGLDADNCRVLYNLEQQSPDIACQVHGHLTKEPDE-- 117
 Db 67 TTAVDICKVRETIKEGYTRAKFGFCDTAVALDEQSDPIAQCVDEALETREDK 126

Qy 118 ----EIGAGDQHMGFMGATDETPELMPLSHVIALTKGARLTVEVRKNGTCPWLRPDGKTQ 172
 Db 127 KDVLDIEGAGDQGLMFAVDEPELMPLPIASHLVRLADRKSMBELTLPDASKQ 186

Qy 173 VTYBEYYNNGAMYPVVRTVYLISTQHDETVNDIAALDKHEVIKPVPEKYLDKTFH 232
 Db 187 VTVQ-YDQGQ-BERVTDTIVSQRHDADVNTTRHVTEKVKEVTPAELDDQKYY 243

Qy 233 LNPSSGRFVJGGPHCDAGLJGRKLIIDTGGWGAHGGFSGKDPPTKVRSGAYIVROAK 292
 Db 244 INP1PGRFVJGGPQDAGLJGRKLIIDTGGYARHGGFSGKDATVKVRSASYAARYAK 303

Qy 293 SIVASGLARRCIVOSVYAIGVPEPLSVFVDTYTGKTHDEKLINIVKENFDPRGMISIN 352

Db 304 NIYAGLARKAELYQLAYAIGVAQDVSIINTFGTGTVEELIAAVRNENFDLPAGITEM 363

Qy 353 LDLKRGGNNRFLKTAAYCHGFGRDPDTW 382
 Db 364 LDURR--PIYKQPAAYGFGRDQDVLOWE 390

RESULT 10
 US-09-543-601A-7130
 ; Sequence 7130, Application US/09543681A
 ; Patent No. 6605709
 ; GENERAL INFORMATION:
 ; APPLICANT: GARY BRETON
 ; TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
 ; CURRENT APPLICATION NUMBER: US/09/543,681A
 ; CURRENT FILING DATE: 2000-04-05
 ; PRIOR APPLICATION NUMBER: US 60/128,706
 ; PRIOR FILING DATE: 1999-04-09
 ; NUMBER OF SEQ ID NOS: 8344

Query Match Score 1086; DB 4; Length 387;
 Best Local Similarity 58.2%; Pred. No. 2.6e-106;
 Matches 221; Conservative 56; Indels 14; Gaps 6;

Qy 4 TELFTSESVNEGHFDKLCQISDAVLDALEQDDSKVACETCTKTNLVMVEGETITKVN 63
 Db 6 THLFTSESVSEGHFDKTAQDISDAVLDALEQDDPKARVACETCTKTNLVMVEGETITKVN 65

Qy 64 VDYEKIVRDTCRNIGFVSNVDGLDADNCRVLYNLEQQSPDIACQVHGHLTKEPDEIGAD 123
 Db 66 VDIBEITRKTVBIGHYSSDMGFDANSCAVISAIGKQSPDINGVD--RADPLEQGAGD 122

Qy 124 QGHMFGYATDETPELMPLSHVIALTKGARLTVEVRKNGTCPWLRPDGKTQVTVYNYDNGA 183
 Db 123 QGMFGATNATEDTPELMPLSHVIALTKGARLTVEVRKNGTCPWLRPDASKTQYDNNN-- 180

Qy 184 MYPVVRVHTVLISTQHDETVNDIAALDKHEVIKPVPEKYLDKTFHNLNPSSGRFVIGG 243
 Db 181 --IVGDAVVLSTQHARDISQDLHEAVMEETIKPLPTENLNBTQKFINTPTGRFVIGG 238

Qy 244 PHGDAGLJGRKLIIDTGGWGAHGGFSGKDPPTKVRSGAYIVROAKSIVASGLARRC 303
 Db 239 PMGDCGLTGRKLIIDTGGMARGHGGFSGKDPKSDRSAAVARYAKNIVAGLDRC 298

Qy 304 IVQVSYAIGVPEPLSVFVDTYTGKTHDEKLINIVKENFDPRP-GMISINIDLKGNNR 362
 Db 299 EIQVSYAIGVPEPLSVFVDTYTGKTHDEKLINIVKENFDPRP-GMISINIDLKGNNR 354

Qy 363 FLKTAAYCHGFGRDPDTW 382
 Db 355 YQKTAAYGHFR--AEPFWE 372

RESULT 11
 US-09-489-039A-11917
 ; Sequence 11917, Application US/09489039A
 ; Patent No. 6610836
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary Breton et. al.
 ; TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 ; TITLE OF INVENTION: PNEUMONIA FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 2709-2004001
 ; CURRENT APPLICATION NUMBER: US/09/489,039A
 ; CURRENT FILING DATE: 2000-01-27
 ; PRIOR APPLICATION NUMBER: US 60/117,747
 ; NUMBER OF SEQ ID NOS: 14342
 ; SEQ ID NO: 11917
 ; LENGTH: 385
 ; TYPE: PRT
 ; ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-11917

Query Match Score 1068.5; DB 4; Length 385;
 Best Local Similarity 57.5%; Pred. No. 1.9e-104;
 Matches 223; Conservative 54; Indels 92; Gaps 8;

Qy 6 LFTSESVNEGHFDKLCQISDAVLDALEQDDSKVACETCTKTNLVMVEGETITKVN 65
 Db 6 LFTSESVSEGHFDKTAQDISDAVLDALEQDDPKARVACETCTKTNLVMVEGETITKVN 65

Qy 66 YEKIVRDTCRNIGFVSNVDGLDADNCRVLYNLEQQSPDIACQVHGHLTKEPDEIGAD 125
 Db 66 IEEITRNTVREGYHSMDGFDANSCAVISAIGKQSPDINGVD--RADPLEQGAGD 122

Qy 126 HMFGYATDETPELMPLSHVIALTKGARLTVEVRKNGTCPWLRPDGKTQVTVYNYDNGAMV 185

Db 123 LMFGYATNEDVYLMAPPVYAHRLVQRQAEVRKNGTLPWLRDAKSOVTFQY-DIGKI- 179 Db 357 LDLKR--PIYRQTSAYGHMGRTDIDLW 383

Qy 186 PVRVHTVLSTQHDETVINDEAADDLREHVIPKRYLDKTKIPLHNPGRFVGGPH 245

Db 180 -VGIDAVVLSSTQHAEDDIOKSLOBAVMEETIKPILPEWLNASTKPKINPGRFVGGPM 238

Qy 246 GDAGLTGKRII1DTYGGGAHGGAFSKDPTKVDGSAITVRAAKSIVASGLAARRCIV 305

Db 239 GDGLTGKRII1DTYGGGAHGGAFSKDPTKVDGSAITVRAAKSIVASGLAARRCIV 298

Qy 306 QSYAIGPEPLSVFVDTYGTGKIHDKBILNIVKENFDERP-GMISINLDLKRGGNRFL 364

Db 299 QSYAIGAEPTSMVFEFTGTEKVPSSQBLTLLVREFDPLRPGLION-LDLL--HPIYK 354

Qy 365 KTAHYGHGREGDDFTWVKEJURKA 392

Db 355 ETAYAIGHGRE- -HFPWB----KTDKA 375

RESULT 12
US-09-583-110-2778
Sequence 2778, Application US/09583110
Patent No. 6699703

GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al.

TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus pneumoniae for Diagnostics and Therapeutics

FILE REFERENCE: PATH00-07A

CURRENT APPLICATION NUMBER: US/09/583,110

CURRENT FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: US 09/107,433

PRIOR FILING DATE: 1998-06-10

PRIOR APPLICATION NUMBER: US 60/085,131

PRIOR FILING DATE: 1998-05-12

PRIOR APPLICATION NUMBER: US 60/051,553

PRIOR FILING DATE: 1997-07-02

NUMBER OF SEQ ID NOS: 5322

SEQ ID NO 2778

LENGTH: 396

TYPE: PRT

ORGANISM: Streptococcus pneumoniae

US-09-583-110-2778

Query Match 51.0%; Score 1062.5; DB 4; Length 396;
Best Local Similarity 55.9%; Pred. No. 8.4e-104; Mismatches 58; Indels 15; Gaps 5;

Matches 218; Conservative

Qy 1 MAETFLFSESYNEGHPKLQDISDAVLDACLEQDPDSKVACETCTKTNLWVFGEISTT 60
Db 1 MSERKLFLSESYSEGHPKIAQDTSDAVLDALAKPAAVAAETATTGSVHFGEIST 60

Qy 61 KANVDEYKIVRDTCRNIGFVSNDVGLDADNCVKLVNIEQSPDIAQVH-----GHLTK 114
Db 61 NAYDINVVRDITAEIGTYNTEGFSAETVGHPSLVEQSPDIAQVNEALEVRGNADQ 120

Qy 115 RP-EEIGADQGMFGYATDETPELMLPSHVATLGARLTEVRKNETCPWLRPDGKTV 173
Db 121 DPLDLIGADQGMFGFAYDETEALMPPIAHSKHLVRLAERKSGEISTYRPDAKSQV 180

Qy 174 TVEY-YNDGAMYPPVRYHTVLISTQHDETVINDEAADDLKEHVIPKPVLPKYLDEKTIHF 232
Db 181 TVEYDENR---PVRVTVVISTQHDEBEATNEQHQVIDKVIKETPSSYLDKTKFF 236

Qy 233 LNPGGRFTGGPHDAGLTKRKTIDTGGWAHGGFSGKDPTKVRSGAYIVROAK 292
Db 237 TNPGGRFTGGPQSDGSLTRGRKLIVDTGGYSRHGGFSGKDATKVRSASYAARYVAK 296

Qy 293 SIVASGLARRCIVCIVSYAIGVPEPLSVFVDTYGTGKTHDEKLINVKNFDRPGMISIN 352
Db 297 NIVAGLAKAECQLAYAIGVAQSVRIDLFTGTVAESOLEKAQKIFDLRPAGIQM 356

Qy 353 LDLKRGNNRFLKTAAYCHFGREDPDTFW 382

Db 357 LDLKR--PIYRQTSAYGHMGRTDIDLW 383

RESULT 13
US-09-107-433-2830
Sequence 2830, Application US/09107433
Patent No. 6800744

GENERAL INFORMATION:
APPLICANT: Lynn A. Doucette-Stamm and David Bush

TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNO

NUMBER OF SEQUENCES: 5206

CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354

COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 60/ 085131
FILING DATE: May 12, 1998
APPLICATION NUMBER: 60/051553
FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 2830:
SEQUENCE CHARACTERISTICS:
LENGTH: 405 amino acids
TOPOLogy: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
FEATURE: NAME/KEY: misc feature
LOCATION: (B) LOCATION 1..405
SEQUENCE DESCRIPTION: SEQ ID NO: 2830:
US-09-107-433-2830

Query Match 51.0%; Score 1062.5; DB 4; Length 405;
Best Local Similarity 55.9%; Pred. No. 8.7e-104; Mismatches 218; Conservative
Matches 218; Gaps 5;

Qy 1 MAETFLFSESYNEGHPKLQDISDAVLDACLEQDPDSKVACETCTKTNLWVFGEISTT 60
Db 10 MSERKLFLSESYSEGHPKIAQDTSDAVLDALAKPAAVAAETATTGSVHFGEIST 69

Qy 61 KANVDEYKIVRDTCRNIGFVSNDVGLDADNCVKLVNIEQSPDIAQVH-----GHLTK 114
Db 70 NAYDINVVRDITAEIGTYNTEGFSAETVGHPSLVEQSPDIAQVNEALEVRGNADQ 129

Qy 115 RP-EEIGADQGMFGYATDETPELMLPSHVATLGARLTEVRKNETCPWLRPDGKTV 173
Db 130 DPLDLIGADQGMFGFAYDETEALMPPIAHSKHLVRLAERKSGEISTYRPDAKSQV 189

Qy 174 TVEY-YNDGAMYPPVRYHTVLISTQHDETVINDEAADDLKEHVIPKPVLPKYLDEKTIHF 232

Db 190 TVEYDENDR --- PVRDTVVISTOHDPEATNEQIHODVIDKVIKEVIBSSYLDDKTKFF 245
 Qy 233 LNPSGRFVIGPGHGDAGLGRKIIIDTYGGWGAHGGAFSGKDPTKVDRSGAYTVROAK 292
 Db 246 INPGRFVIGPGQDGSLTRKIIIDTYGGYSRHGGAFSGKDPTKVDRSGAYTVROAK 305
 Qy 293 SIVASGLARRCIVQSYAIGVPEPLSVFVDTYGTGKINHDKEILNIVKENEDFRPGMISIN 352
 Db 306 NIVAGLAGKAAEVOLAYAIGVAQPVSVRDTFGTCAVRSOLEXAARQFDLRPAGI1QM 365
 Qy 353 LDLKRGGNRFKLTKAYGHFGRDFFWE 382
 Db 366 LDLKR--PIYRQTSAYGMGRDIDLPWE 392

RESULT 14
 US-09-273-686-2
 ; Sequence 2, Application US/09273686
 ; Patent No. 6228625
 ; GENERAL INFORMATION:
 ; APPLICANT: Zalacain, Magdalena
 ; APPLICANT: Burnham, Martin K. R.
 ; APPLICANT: Biswas, Sanjoy
 ; APPLICANT: Brown, James
 ; APPLICANT: Ingraham, Karen, A.
 ; APPLICANT: Chalker, Alison F.
 ; APPLICANT: So, Chi Y.
 ; APPLICANT: Holmes, David J.
 ; APPLICANT: Van Horn, Stephanie
 ; APPLICANT: Warren, Richard L.
 ; TITLE OF INVENTION: metK
 ; CURRENT APPLICATION NUMBER: US/09/10176
 ; CURRENT FILING DATE: 1999-03-22
 ; EARLIER APPLICATION NUMBER: 60/106,767
 ; NUMBER OF SEQ ID NOS: 3
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 2
 ; LENGTH: 396
 ; ORGANISM: Streptococcus pneumoniae
 US-09-273-686-2

Query Match 51.0%; Score 1061.5; DB 3; Length 396;
 Best Local Similarity 55.9%; Pred. No. 1.1e-103;
 Matches 58; Mismatches 99; Indels 15; Gaps 5;

Qy 1 MAETFLFTSESVNGHGPDKLQDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT 60
 Db 1 MSERGLFTSESVCHGPDKLQDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT 60
 Qy 115 RP-BEIGAGDQHMGYATDETPMLPMSHVLATLGARLTTEVKNGTCPWLRPDGKTQTVTVEYND 173
 Db 121 DPLDLIGAGDQHMGFAYDETEBMLPMSHVLATLGARLTTEVKNGTCPWLRPDGKTQV 173
 Qy 174 TVEY-YNDNGAMPVYRVHTYLISQHDETVDIAIDLKEVTKPV1PEKYLDEKCTIFH 232
 Db 181 TVEYDENDR --- PVRDTVVISTOHDPEATNEQIHODVIDKVIKEVIBSSYLDDKTKFF 233
 Qy 233 LNPSGRFVIGPGHGDAGLGRKIIIDTYGGWGAHGGAFSGKDPTKVDRSGAYTVROAK 292
 Db 237 INPGRFVIGPGQDGSLTRKIIIDTYGGYSRHGGAFSGKDPTKVDRSGAYTVROAK 296
 Qy 293 SIVASGLARRCIVQSYAIGVPEPLSVFVDTYGTGKINHDKEILNIVKENEDFRPGMISIN 352
 Db 297 NIVAGLAGKAAEVOLAYAIGVAQPVSVRDTFGTCAVRSOLEXAARQFDLRPAGI1QM 356
 Qy 353 LDLKRGGNRFKLTKAYGHFGRDFFWE 382

Db 357 LDLKR--PIYRQTSAYGMGRDIDLPWE 383
 RESULT 15
 US-09-328-352-6660
 ; Sequence 6660, Application US/09328352
 ; Patent No. 6562958
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary L. Breton et al.
 ; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: GM/99-03 PA
 ; CURRENT APPLICATION NUMBER: US/09/328,352
 ; CURRENT FILING DATE: 1999-06-04
 ; NUMBER OF SEQ ID NOS: 8252
 ; SEQ ID NO: 6660
 ; LENGTH: 395
 ; TYPE: PRT
 ; ORGANISM: Acinetobacter baumannii
 Query Match 50.6%; Score 1055; DB 4; Length 395;
 Best Local Similarity 54.9%; Pred. No. 5.2e-103;
 Matches 211; Conservative 61; Mismatches 100; Indels 12; Gaps 5;
 Qy 1 MAETFLFTSESVNEGHGPDKLQDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT 60
 Db 8 MREYAVFTSESVSEGHGPDKLQDQISDAVLDACLEQDPDSKVACETCTKTNLYMVFGEITT 67
 Qy 61 KANVDYEKIVRDTCRNIGFVSNDDVGLDADNCKVULVNIEQQSPDIAQGVSYGHHLTKRPERIG 120
 Db 68 TANIDYEAERVQTVNGYHSDLGFOGSTCAVNMIGKQSPBIAQGVTD--RQKPEDQG 124
 Qy 121 AGDQGMFGYATDETPMLPMSHVLATLGARLTTEVKNGTCPWLRPDGKTQTVTVEYND 180
 Db 125 AGDQGMFGYASRETDVLMPPATSYAHRLMEQALRSGALPWLRPDQSYTFAY--E 182
 Qy 181 NGAMPVPRVHTVLISTQHDETVDNEAIDLKEVHVKPVIPERKLYDEKTIIFHNPGRFV 240
 Db 183 NGK--PYRLDAVLTQHDPEITQTQLKEAVTEIIIRP1PAEMFHATKPHINPTGMFV 240
 Qy 241 IGSIPHGDAGLTCRKIIIDTYGGWGAHGGAFSGKDPTKVDRSGAYTVRQAAKSIVASGLA 300
 Db 241 IGGPVGDGLTRKIIIDTYGGWGAHGGAFSGKDPTKVDRSGAYTVRQAAKSIVASGLA 300
 Qy 301 RRCIVQSYAIGVPEPLSVFVDTYGTGKINHDKEILNIVKENEDFRPGMISINLDLKRGGN 360
 Db 301 DRCEIQSYAIGVAEPTSISINTFGTAKVSDELIQLVREHDLRPFQITRMNLNLIQ--- 357
 Qy 361 NRFLKTAAYGHFGRDPPD--FTWE 382
 Db 358 PMYKQTAYGHFGRGSDTAFTE 381
 Search completed: September 12, 2005, 20:56:54
 Job time: 34 secs

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